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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/791,057	03/01/2004	03/01/2004 Charles John Call		2863		
25268 7	590 09/13/2006		EXAMINER			
	LAW OFFICES OF RONALD M ANDERSON 600 108TH AVE, NE			POPE, DARYL C		
SUITE 507	L, NE		ART UNIT	PAPER NUMBER		
BELLEVUE,	WA 98004		2612			

DATE MAILED: 09/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

					UI UI				
		Applicatio	n No.	Applicant(s)					
		10/791,05	791,057 CALL, CHARLES JOHN		JOHN				
	Office Action Summary	Examiner		Art Unit					
		DARYL C.		2612					
Pe	The MAILING DATE of this communication a eriod for Reply	ppears on the	cover sheet with the c	orrespondence ad	Idress				
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
St	atus		•						
	1) Responsive to communication(s) filed on		•						
	——————————————————————————————————————	 nis action is no	nn-final						
	· <del></del>			secution as to the	e merits is				
	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Di	sposition of Claims		.,,						
	4)⊠ Claim(s) <u>1-40</u> is/are pending in the application	nn.	•						
			eideration						
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	5) Claim(s) is/are allowed.								
	6) Claim(s) 1-40 is/are rejected.								
	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and	for election re	quiromont						
		/or election re	quirement.						
Αŗ	pplication Papers								
	9) The specification is objected to by the Examir	ner.							
	10) The drawing(s) filed on is/are: a) ac	ccepted or b)[	$\square$ objected to by the E	Examiner.					
	Applicant may not request that any objection to the	e drawing(s) be	e held in abeyance. See	37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the corre	ection is require	d if the drawing(s) is obj	ected to. See 37 CF	FR 1.121(d).				
	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Pr	iority under 35 U.S.C. § 119								
	12) Acknowledgment is made of a claim for foreig	n priority und	er 35 U.S.C. § 119(a)	-(d) or (f).					
	a) All b) Some * c) None of:		· · · · · · · · · · · · · · · · · · ·	· / · / /	·				
	1. Certified copies of the priority docume	nts have been	received.						
	2. Certified copies of the priority documer			on No.					
	3. Copies of the certified copies of the pri	•	• •		Stage				
	application from the International Bure	•			o.ugu				
	* See the attached detailed Office action for a lis	•	` ''	d.					
	·	•							
Atta	achment(s)								
ן (ו	Notice of References Cited (PTO-892)		4) Interview Summary						
2) [ ,, r	Notice of Draftsperson's Patent Drawing Review (PTO-948)	0)	Paper No(s)/Mail Da 5) Notice of Informal Pa		) 152\				
) L	Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	-,	6) Other:	atent Application (PTC	J- 134)				
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U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

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#### **DETAILED ACTION**

### Claim Objections

1. Claim 40 is objected to because of the following informalities: It appears that applicant inadvertently attached claim 34 at the end of claim 40. Therefore, this attachment should be removed. Appropriate correction is required.

### **ART REJECTION:**

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-5,8-9,11-14,17-18,20-22,25-26,29-30,32-33,35-37, and 38-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Padmanabhan et al(7,096,125).
- -- In considering claim 1, the claimed subject matter that is met Padmanabhan et al(Padmanabhan):
- 1) the sensor on the surface air sampler is met by LIDARS including the broadband detection type sensors(120) and sensors(130) which are utilized in air intakes(see: column 3, lines 32-39);

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2) the communication interface coupled to the sensor is met by the integrating controller(210) which is coupled to the sensors to output sensors information to a operating center controller220).

- -- With regards to claim 2, the sensor being a biological or chemical sensor is met(see: column 3, lines 48 et seq).
- -- With regards to claims 3-4, the interface being a transmitter and a transceiver is met by the processor(210) being capable of transmitting and receiving information to/from other devices in the system via RF transceivers(245).
- -- With regards to claim 5, the interface configured to communicate over an automation system network is met by the network of RF transceivers(245) which allow intercommunication of devices in the system.
- -- With regards to claim 8, the battery backup power supply(see: column 6, lines 9-16).
- -- With regards to claim 9, the building and its envelope comprising the device is met by the sensors being utilized in a building(see: figure 6).
  - -- Claim 11 recites subject matter that is met as discussed in claim 1 above.
- -- Claim 12 recites subject matter that is met as discussed in claim 2 above.
- -- With regards to claim 13, the second sensor other than the sensor based on regenerative surface, and activated by the positive response of the first sensor is met by the downstream trigger sensors(not shown) which are activated by positive responses from the broadband sensors(see: column 3, lines 62 et seq).
- -- Claim 14 recites subject matter that is met as discussed in claim 1 above.

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-- With regards to claim 17, the controller capable of actuating at least one other component in response to receiving information from the sensor is met by the processor activating sending signals to a sampler/concentrator such that samples of air are collected for further analysis(see: column 5, lines 55 et seq).

- -- Claim 18 recites subject matter that is met as discussed in claim 14 above(see: figure 6).
- -- Claim 20-22,25, and 36-37 recite subject matter that is met as discussed in claim 1 above, as well as:
- 1) the at least one actuator is met by the IC/OCC system control with analysis(640);
- 2) the air management component coupled to the actuator is met by the sampler/concentrator(250) which receives signals from the IC and is thereby actuated to collect samples of air for further analysis(see: column 5, lines 60 et seq).
  - -- Claim 26 recites subject matter that is met as discussed in claim 20 above.
- -- With regards to claims 29-30, the transceiver communicating wirelessly is met by the RF transceivers(245).
- -- Claim 32 recites subject matter that is met as discussed in claim 1 above.
- -- Claim 33 recites subject matter that is met as discussed in claim 2 above.
- -- Claim 35 recites subject matter that is met as discussed in claim 1 above.
- -- Claims 36-37 recite subject matter that is met as discussed in claim 20 above(see: column

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-- With regards to claims 38-39, the step of issuing an warning signal and transmitting the alert signal to facility management is met by the controller receiving sensor outputs and outputting threat information to a building controller (580, column 7, lines 37-42).

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 6-7,10,15-16,19,23-24,27-28,31, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Padmanabhan et al(Padmanabhan).
- -- With regards to claims 6-7, the examiner takes Official Notice that in the network communication art, use of LonWorks, and CEBus automation systems are well known in the art, and therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate those automation systems, or any other system as desired into the network of Padmanabhan, since this would enhanced the reliability of the automation system for the purpose of system intercommunication of devices in the system.
- -- With regards to claim 10, although the system of Padmanabhan is utilized in a building, it would have been obvious to none of ordinary skill in the art at the time the invention was made to utilize the system in an airplane, since an airplane would have included a similar air circulation system to a building that would have been readily adaptable to the use of the Padmanabhan system.

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- -- With regards to claims 15-16 and 23, the specific type of sensor is not disclosed by Padmanabhan, the examiner takes official notice that in the sensor art, use of dumb sensors, smart sensors, intelligent sensors and controllers with Neuron chips are well known, and therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate any of the above stated sensors as desired into the system of Padmanabhan, since one of ordinary skill would have recognized the advantage of each particular type of sensor and chip used to the enhance the efficiency of the system.
- -- With regards to claims 24 and 27, the examiner takes Official Notice that in the building automation art, use of Bacnet protocol is well known, and therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate BACnet protocol into the transceivers of Padmanabhan, since this would have provided a network protocol with interoperability, efficiency, and low overhead to the building automation system of Padmanabhan.
- -- With regards to claim 31, although Padmanabhan utilizes wireless transceivers(245) for intercommunication in the system, Padmanabhan also suggests use of wires for the purpose of communication in the system(see: column 4, lines 23-26). In view of this suggestion, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate wires as the communication link in the system of Padmanabhan, since wired links would have reduced the amount of interference during the transmission and reception of signals between devices in the system.

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-- With regards to claim 34, although Padmanabhan does not specifically teach the use of smoke sensors, it would have been obvious to one of ordinary skill in the art at the time the invention was made that the sensors of Padmanabhan would have constituted a smoke sensor, since smoke sensors that detect smoke based on particle detection in air samples is well known, and therefore would have constituted the LIDARs(230) of Padmanabhan.

-- With regards to claim 40, since the system of Padmanabhan it utilized to detec and identify agents in air samples, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the sensor network of Padmanabhan with an alert system fo alerting fire department or law enforcement agency, since these would have been the entities that would have handled potentially hazardous situations upon the detection of agents in the system of Padmanabhan.

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DARYL C. POPE whose telephone number is 571-272-2959. The examiner can normally be reached on M-TH 9:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MIKE HORABIK can be reached on 571-272-3068. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Daryl C. Pope

September 10, 2006

DARYL C POPE Primary Examiner

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